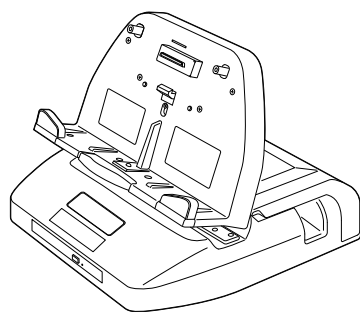




## OPERATING INSTRUCTIONS

**Cradle**

Model No. **CF-VEBD11** Series

### Contents

|                                    |    |
|------------------------------------|----|
| Introduction.....                  | 4  |
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## For U.S.A.

### Federal Communications Commission Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. There limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

### Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This device is Class A verified to comply with Part 15 of FCC Rules when used with Panasonic Notebook Computer.

Responsible Party: Panasonic Corporation of North America  
One Panasonic Way  
Secaucus, NJ 07094  
Tel No:1-800-LAPTOP5 (1-800-527-8675)

6-M-1

## For Canada/Pour le Canada

### Canadian ICES-003

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

7-M-2

## For Europe

### Interface Cable

Use of an interface cable longer than 3 m {9.84 feet} is not recommended.

11-E-1

### Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Do not use other than the specified AC Adaptor (Model No. CF-AA5713A).



## Declaration of Conformity (DoC)

"Hereby, Panasonic declares that this Cradle is in compliance with the essential requirements and other relevant provisions of EU Council Directives."

Authorised Representative:

Panasonic Testing Centre

Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, Germany

18-E-0

<Only for model with CD/DVD Drive>

### CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF.

REFER SERVICING TO QUALIFIED PERSONNEL.

The following label is put on the bottom of the cradle.

12-E-1



## Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

Please dispose of this item only in designated national waste electronic collection schemes, and not in the ordinary dust bin.

### For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

### Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

36-E-1

## For Australia

### Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

# Introduction

Thank you for purchasing the cradle for the Panasonic CF-D1 series\*<sup>1</sup>.  
By connecting your peripheral devices to the cradle, you can save yourself the trouble of having to connect and disconnect several cables every time you transport the computer.  
<sup>\*1</sup> This cradle cannot be used for other models.

## ■ Accessories

|                                                                                  |          |
|----------------------------------------------------------------------------------|----------|
| <b>Safety Precautions and Regulatory Information .....</b>                       | <b>1</b> |
| <Only for model with CD/DVD Drive>                                               |          |
| <b>DVD Drive Utility Disc <sup>*2</sup>(Not provided for some models.) .....</b> | <b>1</b> |

<sup>\*2</sup> This contains the programs used to install “Roxio Creator™ LJB (hereafter, Roxio Creator LJB)”, “CyberLink PowerDVD (hereafter, PowerDVD)”, and “DVD-RAM Software (only for Windows XP)”.  
About software overview and installing the software, see “Operating Instructions Software Guide” in “DVD Drive Utility Disc”.

NOTE

- This manual explains the procedure for default settings. The procedure may differ according to the settings.
- **Windows 7** indicates “Genuine Windows® 7 Professional 32-bit Service Pack 1” or “Genuine Windows® 7 Professional 64-bit Service Pack 1”.
- **Windows XP** indicates “Genuine Microsoft® Windows® XP Professional Service Pack 3”.
-  : Page in these Operating Instructions.
-  : Reference to the on-screen manuals of the computer.

Microsoft® and Windows® are registered trademarks of Microsoft Corporation in the United States and/or other countries.  
Roxio Creator is trademarks or registered trademarks of Rovi Corporation.  
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

# Precautions

## ● If a Malfunction or Trouble Occurs, Immediately Stop Use

### If a Malfunction Occurs, Immediately Unplug the AC Plug and Remove the Unit From This Product

- This product is damaged
- A foreign object is inside this product
- Smoke is emitted
- An unusual smell is emitted
- Unusually hot

Continuing to use this product while any of the above conditions are present may result in fire or electric shock.

- If a malfunction or trouble occurs, immediately unplug the AC plug and remove the unit from this product. Then, contact your technical support office for repair.

## ● Do Not Touch This Product and Cable When It Starts Thundering

Electric shock may result.

## ● Do Not Place Containers of Liquid or Metal Objects on Top of This Product

If water or other liquid spills, or if paper clips, coins, or foreign matter get inside this product, fire or electric shock may result.

- If foreign matter has found its way inside, immediately unplug the AC plug and remove this product from the unit. Then contact your technical support office.

## ● Do Not Place This Product on Unstable Surfaces

If balance is lost, this product may fall over or drop, resulting in an injury.

## ● Do Not Keep This Product Wherever There is a Lot of Water, Moisture, Steam, Dust, Oily Vapors, etc.

Otherwise, possibly resulting in fire or electric shock.

## ● Do Not Leave This Product in High Temperature Environment for a Long Period of Time

Leaving this product where it will be exposed to extremely high temperatures such as near fire or in direct sunlight may deform the cabinet and/or cause trouble in the internal parts. Continued use in such a resulting condition may lead to short-circuiting or insulation defects, etc. which may in turn lead to a fire or electric shocks.

## ● Use Only the Specified AC Adaptor With This Product

Using an AC adaptor other than the one supplied (supplied with the unit or one sold separately as an accessory) may result in a fire.

## ● Do Not Connect a Telephone Line, or a Network Cable Other Than the One Specified, Into the LAN Port

If the LAN port is connected to a network such as the ones listed below, a fire or electric shock may result.

- Networks other than 1000BASE-T, 100BASE-TX or 10BASE-T
- Phone lines (IP phone (Internet Protocol Telephone), Telephone lines, internal phone lines (onpremise switches), digital public phones, etc.)

## ● Do Not Turn the Volume Up Too Loud When Using Headphones

Listening at high volumes that overstimulate the ear for long periods of time may result in loss of hearing.

<Only for model with CD/DVD Drive>

## ● Do Not Look Into the CD/DVD Drive

Looking directly at the internal laser light source may result in damage to eyesight.

<Only for model with CD/DVD Drive>

## ● Do Not Use Discs That Are Cracked or Deformed

Because the discs rotate at high speeds, damaged discs may break apart causing injury.

- Discs that are not round and discs that have been repaired using adhesives are similarly dangerous, and so should not be used.

## ● Using this product continuously in a hot environment will shorten the product life. Avoid use in these types of environments.

## ● When using in hot or cold environment, some peripherals may fail to work properly. Check the operation environment of the peripherals.

<Only for model with CD/DVD Drive>

## ■ Drive Handling Care

- Do not expose the drive to excessive smoke that may leave a residue, e.g., oil smoke, or tobacco smoke. Doing so can shorten the life of the drive lens.
- We recommend cleaning the drive lens with an air puffer used for camera lenses. (Do not use any spray-type of lens cleaning products.)

### When opening/closing the tray

- When the computer is on, use the eject button (🖱️ page 11) or eject through Windows.
- When inserting or removing a disc, be careful not to touch the lens and other parts of the laser pickup.

# Precautions

- Do not leave the tray open and do not touch the lens and other parts of the laser pickup.  
The laser pickup and disc can become dusty in some conditions. It may cause malfunction in reading or writing.
- Do not apply excessive force to the tray in the open position.
- Never insert a foreign object such as a paper clip into the drive.  
Doing so may cause malfunction.
- Do not place items other than discs on the tray.

## While the drive is being accessed

- Do not open the tray or move the cradle while the drive is being accessed.  
Doing so could cause the disc to shift position and this may damage the disc, or cause the drive to malfunction.  
In addition, after running an application involving access to a disc, close the application before opening the tray or removing the disc.

<Only for model with CD/DVD Drive>

## ■ Disc Handling Care

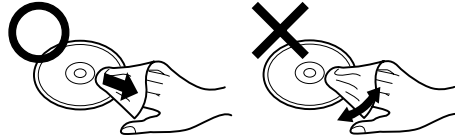
- Before using a disc, carefully read the operating/handling instructions and package of the disc.
- If the discs are not handled appropriately, they may become dirty or scratched. Furthermore the writing speed may get slower and the data may not be correctly written on or read from the disc. Other damage may cause a drive failure.
- Note the following precautions.
  - Do not touch the disc surface (the side with no printing).
  - Keep the disc surface clean and free from dirt, dust, fingerprints and scratches.
  - Do not write on the surface of the disc with a ballpoint pen or other writing instrument.
  - Do not attach stickers to discs.
  - Do not drop, bend, or place heavy objects on top of discs.
  - Do not place or store discs in locations exposed to heat, direct sunlight, humidity or dust.
  - If a disc is brought from a cold to a warm location, condensation may form on the disc.  
For read-only discs, wipe off the condensation using a soft, dry, lint-free cloth before using the disc. For recordable/rewritable discs, wait until the condensation dries.
  - When not using discs, keep them in their protective cases or cartridges.

### To clean discs

<For read-only discs>

Wipe discs with a dry, soft cloth from the center toward the edge.

If discs get very dirty, wipe with a moist, soft cloth from the center toward the edge, then wipe again with a dry cloth to take up remaining moisture.

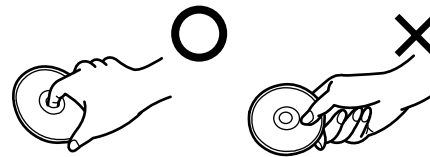


<For recordable/rewritable discs>

Use the recordable/rewritable disc cleaner to clean these discs.

Do not use a cloth, CD cleaners or any other such cleaners under any circumstances.

### How to hold a disc



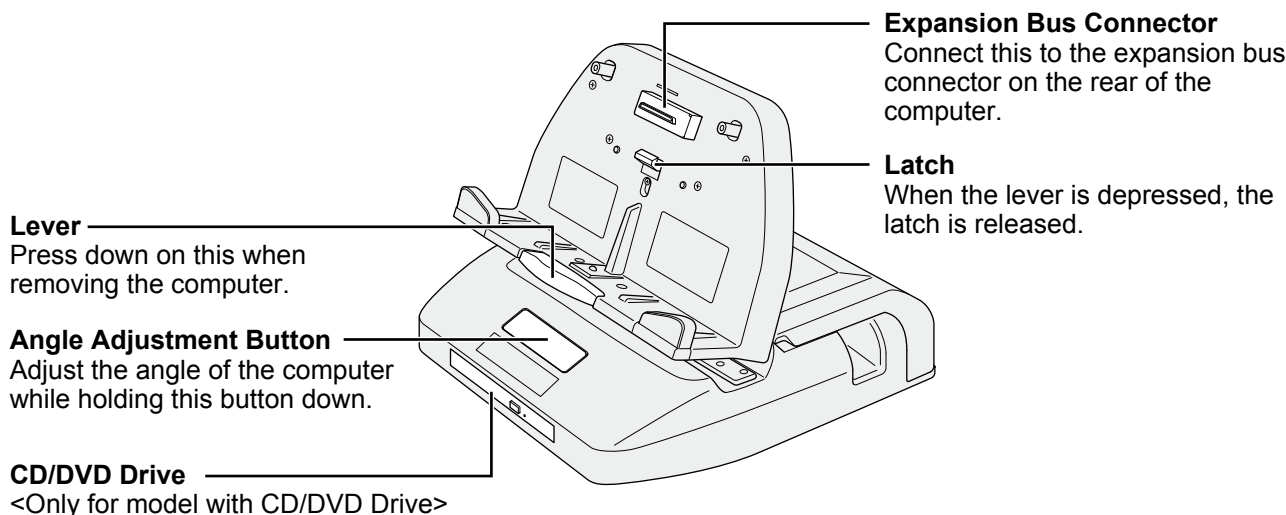
# Names and Functions of Parts

The cradle allows your peripheral devices to function exactly as if they were connected directly to the computer. (Refer to “Description of Parts” in the “Operating Instructions” accompanying the computer.)

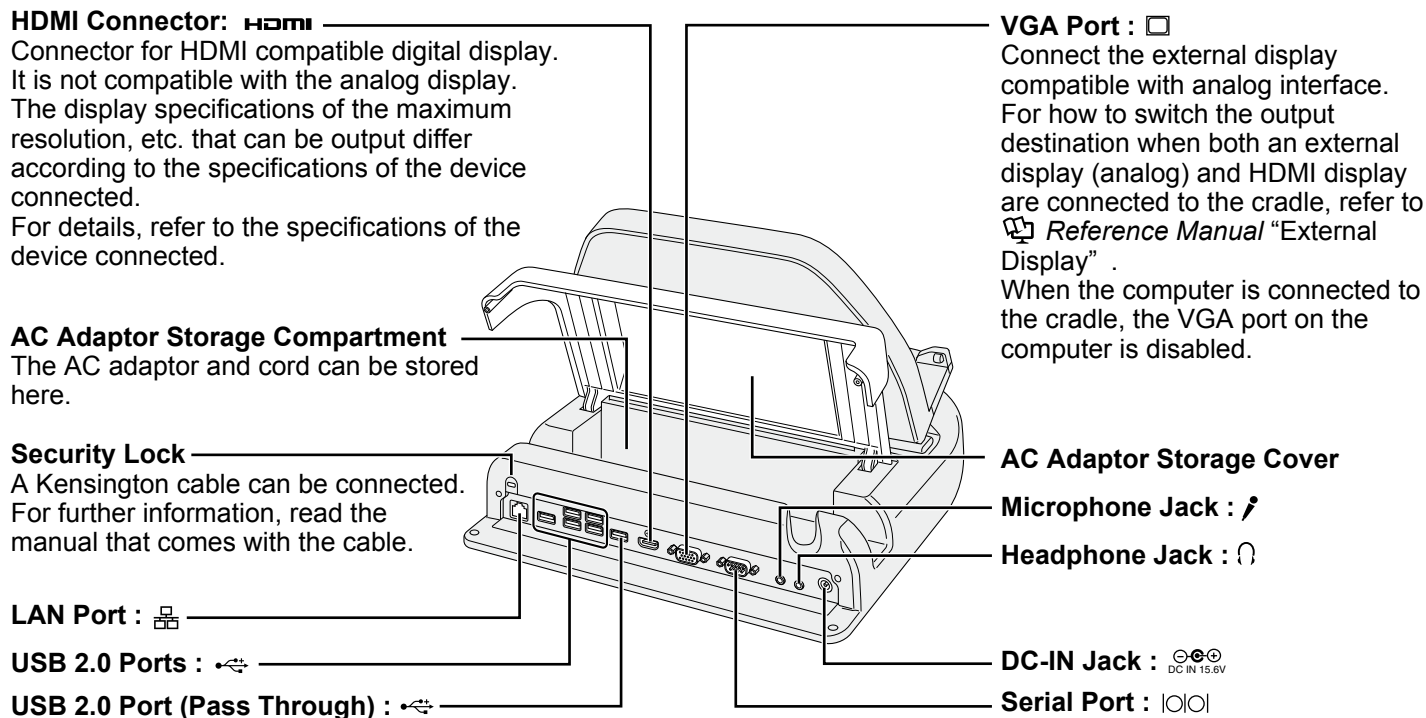
## CAUTION

- Do not touch the cradle connector, pins or terminals of the cradle.

## Front



## Rear



# Connecting / Disconnecting

## CAUTION

- Do not connect or disconnect the cradle while the computer is powered on or in the sleep ( **Windows 7** ) / standby ( **Windows XP** ) or hibernation mode.

## ■ Connecting

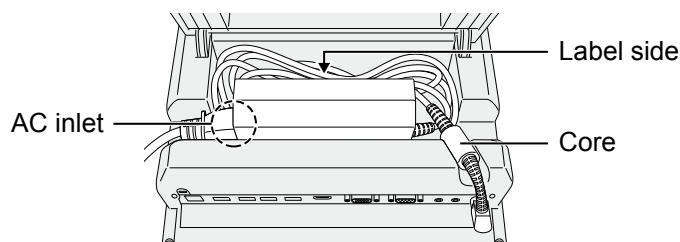
- ① Power off the computer, and disconnect all cables from the computer.
- ② Open the cover of the expansion bus connector on the rear of the computer.
- ③ Connect the AC adaptor that came with the computer to the cradle and plug the other end into an AC outlet.

## CAUTION

- Refer to the “Operating Instructions” accompanying computer for information on proper handling of the AC adaptor and AC cord.

## NOTE

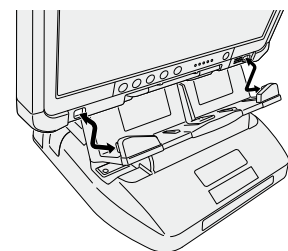
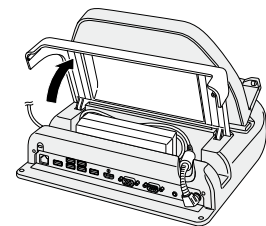
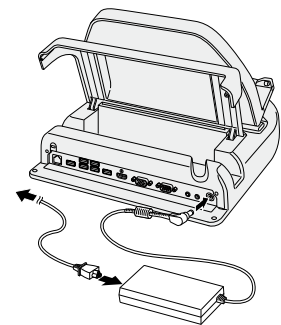
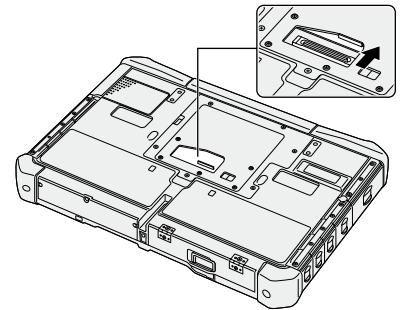
- The AC adaptor can be stored in the AC adaptor storage compartment. Open the AC adaptor storage cover. Place the AC adaptor with its label side facing forward, and its AC inlet side toward the left. Also, place the AC adaptor within the heat sink and the protrusion. Finally, align the core on the DC cord to the groove as illustrated.



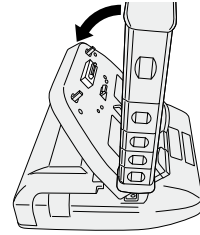
- ④ Align the protrusions on the cradle with the corresponding indentations on the bottom of the computer, and insert the computer to the cradle.

## CAUTION

- Do not connect the computer to the cradle while the AC adaptor or other cables is connected to the computer.
- Do not attempt to make connections if there is any object between the computer and the cradle. Doing so could damage the computer and the cradle.



- ⑤ Insert the expansion bus connector on the cradle into the computer's expansion bus connector.  
Set the computer back against the cradle so that the computer and the cradle are securely connected.

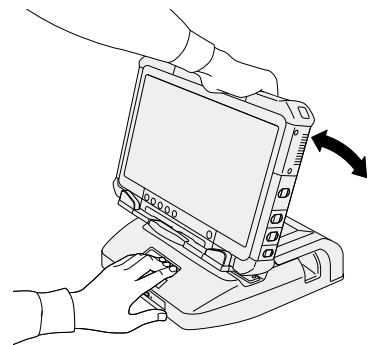


## CAUTION

- While connecting the computer to the cradle:
  - Do not attempt to move the cradle.
  - It is impossible to remove the battery pack.
- If the computer malfunctions while the cradle is attached, disconnect the cradle and check to see if the computer operates normally. If the computer operates normally, the cradle may be malfunctioning. Contact your technical support office.

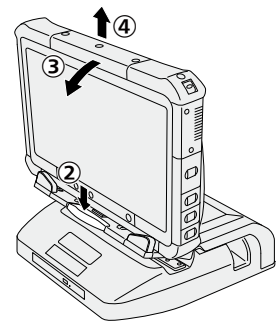
## ■ Adjusting the Angle

While pressing down the angle adjustment button, push or pull the upper part of the computer as illustrated to obtain the most suitable angle.  
Avoid touching the LCD while adjusting the angle.  
There are five levels for angle adjustment.



## ■ Disconnecting

- ① Power off the computer.
- ② Hold down the lever in the direction of the arrow.
- ③ Pull the computer toward you.  
Disconnect the extension bus connector on the computer from the extension bus connector on the cradle.
- ④ Lift up the computer to remove it from the cradle.
- ⑤ Close the cover of the extension bus connector on the rear of the computer.



# Connecting / Disconnecting

---

## CAUTION

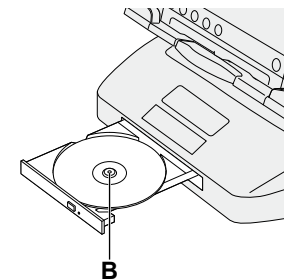
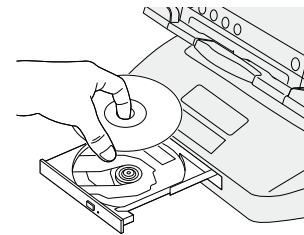
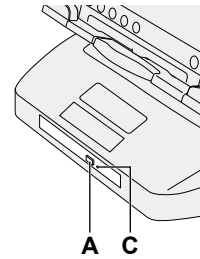
- If the computer is connected to the cradle, connect the AC adaptor and the LAN cable to the jack and port on the cradle. You cannot use the LAN port on the computer. Note that the AC adaptor can also be connected to the DC-IN jack of the computer.
- Do not connect/disconnect peripheral devices in sleep (**Windows 7**) / standby (**Windows XP**) or hibernation.
- **Windows XP**  
If a printer that is connected to a USB port is disconnected, devices connected to the other USB ports may stop functioning.  
If this occurs, restart the computer.
- When using the USB 2.0 port, confirm that [USB Port] is set to [Enable] in the [Advanced] menu of the Setup Utility on the computer.
- For more information about the settings and preparations of the peripheral devices, refer to the peripheral devices' own operating instructions.
- When connecting the external display to either of the ports, lines or letters may blur. In that case, lower the resolution.
- Connect headphones to the computer or to the cradle. Do not connect two sets of headphones to the computer and the cradle.

# Using the Drive

<Only for model with CD/DVD Drive>

## ■ Setting a Disc

- ① Turn on the computer.
- ② Press the eject button (A) and slowly pull out the tray.
- ③ Insert/Remove the disc.
  - To insert  
Set the disc with the label side up and press the center of the disc until it clicks in place.
  - To remove  
Press on the center spindle (B) and carefully lift up the edge of the disc.
- ④ Close the tray.  
Do not press the eject button.



### NOTE

- To remove a disc when the computer is powered off, insert a pointed object (e.g., the bent-out tip of a paper clip) into the emergency hole (C). Pushing it to the end allows the tray to come out.
- If the vibration of the drive is excessive, check the disc.
- For AutoPlay CD/DVD:
  - If an AutoPlay CD/DVD does not start after the computer resumes from (Windows 7) sleep / (Windows XP) standby or hibernation, remove the disc from the drive and then reinsert it after waiting 15 seconds.
  - An AutoPlay CD/DVD may start during file access depending on the status of the disc.
- When playing back video from a disc, playback may not be smooth in some conditions.

## ■ Power-saving Mode

If the drive is not accessed for 30 seconds, the drive motor will automatically be shut down to reduce the power consumption. When the drive is accessed again, the drive motor is turned on. In this case, reading of the disc data will take approximately 30 seconds.

## ■ To play DVD-Video or MPEG2 files

Install the DVD playback software using “DVD Drive Utility Disc”.

For information on how to install the software, refer to “Operating Instructions Software Guide” with “DVD Drive Utility Disc”.

## ■ Region Code Setting

DVD-Videos are allocated to region codes according to where they are sold. To play a DVD-Video, the player's software and the drive must have the corresponding region code.

e.g.,

For U.S.A. and Canada: “1”

For Europe: “2”

# Using the Drive

- The region code of the drive is not set at purchase. The operation depends on the DVD-Video that is first played.
  - DVD-Video with a specific region code:  
The drive will automatically be set at the same region code as the DVD-Video.
  - DVD-Video with multiple region codes:  
The screen to change the region code appears. Set the region code.

## CAUTION

- You can change the region code setting up to five times including the initial setting. Be extremely careful because you cannot change the region code anymore after the fifth change, even if you reinstalled the operating system.
- Any problem resulting from illegal changing or altering of the region code is the user's responsibility.

## NOTE

- The screen to change the region code appears when the DVD-Video has only one region code and the drive is set for another region code.

## Writing to Discs

### Windows 7

Windows 7 includes the standard function that enables you to write or rewrite data to a disc.

### Windows 7

You can copy a CD/DVD or create a music CD, data CD/DVD, etc. by installing “Roxio Creator LJB” using the “DVD Drive Utility Disc”.

### Windows XP

Writing software is required to write data to a disc other than DVD-RAM.

Install “DVD-RAM Software” and “Roxio Creator LJB” using “DVD Drive Utility Disc”.

- Be sure to use discs conforming to the proper write speeds. (☞ page 17)
- If the write operation is to involve a long period of time, be sure to connect the AC adaptor of the computer. If the battery power runs low and the power of the computer is cut, the write operation may end in failure.
- You can read from/write to the following discs.

| CD-R                                                                                |                                                                                     | CD-RW                                                                               |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| DVD-RAM <sup>*1</sup>                                                               | DVD-R                                                                               | DVD-R DL                                                                            | DVD-RW <sup>*2</sup>                                                                |
|  |  |  |  |
| +R                                                                                  | +R DL                                                                               | +RW                                                                                 |                                                                                     |
|  |  |  |  |

● You can read from the following discs.

| CD-ROM                                                                            | CD DIGITAL AUDIO                                                                  | CD TEXT                                                                           | CD-EXTRA                                                                          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |
| Video CD                                                                          | Photo CD                                                                          | DVD-ROM                                                                           | DVD-Video                                                                         |
|  |  |  |  |

\*1 DVD-RAM: Only non-cartridge type or removable cartridge type can be used.

\*2 Does not support DVD-RW Ver.1.0.

● Recommended discs for writing

- The quality of written data depends on the disc.

<CD-R>

- TAIYO YUDEN Co., Ltd.

<CD-RW/High-Speed CD-RW>

- MITSUBISHI KAGAKU MEDIA CO., Ltd.

<Ultra-Speed CD-RW>

- MITSUBISHI KAGAKU MEDIA CO., Ltd.

<DVD-R>

- Panasonic Corporation
- MITSUBISHI KAGAKU MEDIA CO., Ltd.
- TAIYO YUDEN Co., Ltd.

<DVD-R DL>

- MITSUBISHI KAGAKU MEDIA CO., Ltd.
- TAIYO YUDEN Co., Ltd.

<DVD-RW>

- MITSUBISHI KAGAKU MEDIA CO., Ltd.
- Victor Company of Japan, Limited

<DVD-RAM>

- Panasonic Corporation
- HITACHI MAXELL, Ltd.

<+R / +RW>

- MITSUBISHI KAGAKU MEDIA CO., Ltd.

<High Speed +RW>

- MITSUBISHI KAGAKU MEDIA CO., Ltd.

<+R DL>

- MITSUBISHI KAGAKU MEDIA CO., Ltd.

● DVD discs you can use for writing

<DVD-R for General>

- 1X-SPEED (4.7 GB)
- 1-2X-SPEED (4.7 GB)
- 1-4X-SPEED (4.7 GB)
- 1-8X-SPEED (4.7 GB)
- 1-16X-SPEED (4.7 GB)

<DVD-R DL>

- 2-4X-SPEED (8.5 GB)
- 2-8X-SPEED (8.5 GB)

<DVD-RW>

- 1X-SPEED (4.7 GB/9.4 GB)
- 1-2X-SPEED (4.7 GB/9.4 GB)
- 2-4X-SPEED (4.7 GB/9.4 GB)
- 2-6X-SPEED (4.7 GB/9.4 GB)

<DVD-RAM>

- 2X-SPEED (4.7 GB/9.4 GB)
- 2-3X-SPEED (4.7 GB/9.4 GB)
- 2-5X-SPEED (4.7 GB/9.4 GB)

<+R>

- 1-2.4X-SPEED (4.7 GB)
- 1-4X-SPEED (4.7 GB)
- 1-8X-SPEED (4.7 GB)
- 1-16X-SPEED (4.7 GB)

<+R DL>

- 2.4X-SPEED (8.5 GB)
- 2.4-8X-SPEED (8.5 GB)

<+RW>

- 1-2.4X-SPEED (4.7 GB)
- 1-4X-SPEED (4.7 GB)

<High-Speed +RW>

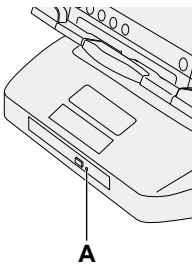
- 3.3-8X-SPEED (4.7 GB)

# Troubleshooting

|                                                                                                                       |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Devices connected to the USB 2.0 ports do not operate.                                                                | <ul style="list-style-type: none"> <li>● Turn off the computer, disconnect it from the cradle, and then reconnect it to the cradle and turn it on again.</li> </ul>                                                                                                                                                                 |
| Power can be turned on, however, Windows does not start up normally.                                                  | <ul style="list-style-type: none"> <li>● Disconnect peripheral devices, such as a USB memory. If disconnecting the peripheral devices can start up Windows, the problem may be with the peripheral devices. Contact the manufacturer of such devices.</li> </ul>                                                                    |
| The computer does not resume (return) from sleep ( <b>Windows 7</b> ) / standby ( <b>Windows XP</b> ) or hibernation. | <ul style="list-style-type: none"> <li>● Make sure the AC adaptor is connected to the DC-IN jack of the cradle, and turn the computer on.</li> </ul>                                                                                                                                                                                |
| The computer does not power off (Windows does not shut down).                                                         | <ul style="list-style-type: none"> <li>● If a peripheral is connected, disconnect it, and then shut down.<br/>If it is possible to shut down when the peripheral is disconnected, then there may be a problem with the peripheral. Contact the manufacturer of such devices.</li> </ul>                                             |
| Nothing is displayed or the display does not appear properly on the external display connected to the HDMI terminal.  | <ul style="list-style-type: none"> <li>● The HDMI compatible display does not support the HDMI connection on the computer.<br/>When the HDMI compatible display does not support the HDMI connection on the computer, the screen may appear blurry, or the output destination may not be switched by the display driver.</li> </ul> |

<Only for model with CD/DVD Drive>

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The computer does not recognize the drive. | <ul style="list-style-type: none"> <li>● Restart the computer.</li> <li>● Power off the computer, then remove and connect the computer again.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Cannot access to the disc.                 | <ul style="list-style-type: none"> <li>● Is the disc loaded on the tray correctly?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cannot play disc or read data from it.     | <ul style="list-style-type: none"> <li>● Is the disc bent, scratched, or dirty?</li> <li>● An error may occur if, after the tray has been closed or operation has been resumed from the (<b>Windows 7</b>) sleep / (<b>Windows XP</b>) standby or hibernation, the drive is accessed before the hard disk drive indicator  goes off. Also, an error may occur if the drive is accessed by the application software automatically. In this case, remove the disc, reinsert it, and try again. (👉 page 11)</li> </ul>                            |
| "Roxio Creator LJB" does not work properly | <ul style="list-style-type: none"> <li>● Is writing software other than "Roxio Creator LJB" installed? Uninstall the writing software other than "Roxio Creator LJB."</li> <li>● <b>Windows XP</b><br/>Be sure to disable writing to CDs/DVDs.<br/>Right-click [(x:)]<sup>*1</sup> in [start] - [My Computer], click [Properties] - [Recording], then remove the check mark for [Enable CD recording on this drive].<br/>(Remove the check mark for [Enable CD recording on this drive] every time a new user is added.)<br/><sup>*1</sup> "x" is the drive letter. You can change the letter to suit your preference.</li> </ul> |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cannot eject disc.                                        | <ul style="list-style-type: none"> <li>● Turn on the computer.</li> <li>● To remove a disc when the computer is powered off, insert a pointed object (e.g., the bent-out tip of a paper clip) into the emergency hole (A). Pushing it completely to the end will free the tray so that it can be pulled out.</li> <li>● If a disc with fingerprints or other dirt is used, you may not be able to remove it. Use a clean disc. (👉 page 6)</li> </ul>  |
| The disc tray does not close.                             | <ul style="list-style-type: none"> <li>● Do not touch the eject button when closing the tray.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Other disc operation (reading/writing/rewriting) problems | <ul style="list-style-type: none"> <li>● Use another drive or media.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

# Specifications

| Item                                      | Description                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Power Supply Input                        | DC15.6 V (Use the specified AC adaptor supplied with the computer or one sold separately as an accessory.)                        |
| Expansion Bus Connector                   | 100-pin                                                                                                                           |
| USB 2.0 Port* <sup>1</sup>                | USB 2.0 × 5 (complies with USB 2.0)                                                                                               |
|                                           | Allowable current for each port : 500 mA                                                                                          |
| USB 2.0 Port (Pass Through)* <sup>1</sup> | USB 2.0 × 1 (complies with USB 2.0)                                                                                               |
|                                           | Allowable current for each port : 500 mA                                                                                          |
| LAN Port                                  | IEEE802.3ab 1000BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3 10BASE-T (RJ-45)                                                         |
| HDMI Port* <sup>1,2</sup>                 | HDMI × 1 For exclusive use with HDMI standard                                                                                     |
| VGA Port                                  | Mini Dsub 15-pin female (Analog interface)                                                                                        |
| Serial Port                               | RS-232C Dsub 9-pin                                                                                                                |
| Microphone Jack                           | Miniature jack, 3.5 DIA                                                                                                           |
| Headphone Jack                            | Miniature jack, 3.5 DIA                                                                                                           |
| Physical Dimensions (W x H x D)           | Approx. 292 mm x 233 mm x 284 mm<br>{Approx. 11.5" x 9.2" x 11.2"}                                                                |
| Weight                                    | <Only for model with CD/DVD drive> : Approx. 5.1 kg {11.2 lb.}<br><Only for model without CD/DVD drive> : Approx. 5.0 kg {11 lb.} |

<Only for model with CD/DVD drive>

| Item                |                                                      |                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CD/<br>DVD<br>Drive | Continuous<br>Data Transfer<br>Speed <sup>*3*4</sup> | Reading <sup>*5</sup> | <ul style="list-style-type: none"> <li>●DVD-RAM<sup>*6</sup>: 5X (Max.) ●DVD-R<sup>*7</sup>: 8X (Max.)</li> <li>●DVD-R DL: 8X (Max.) ●DVD-RW: 8X (Max.)</li> <li>●DVD-ROM: 8X (Max.) ●+R: 8X (Max.) ●+R DL: 8X (Max.)</li> <li>●+RW: 8X (Max.) ●High Speed +RW: 8X (Max.)</li> <li>●CD-ROM: 24X (Max.) ●CD-R: 24X (Max.) ●CD-RW: 24X (Max.)</li> <li>●High-Speed CD-RW: 24X (Max.)</li> <li>●Ultra-Speed CD-RW: 24X (Max.)</li> </ul>                                                                                                                                                                                                                                                                               |
|                     |                                                      | Writing <sup>*8</sup> | <ul style="list-style-type: none"> <li>●DVD-RAM<sup>*6</sup>: 5X (Max.) ●DVD-R<sup>*7</sup>: 8X (Max.)</li> <li>●DVD-R DL: 6X (Max.) ●DVD-RW: 6X (Max.) ●+R: 8X (Max.)</li> <li>●+R DL: 6X (Max.) ●+RW: 4X (Max.)</li> <li>●High Speed +RW: 8X (Max.) ●CD-R: 24X (Max.) ●CD-RW: 4X</li> <li>●High-Speed CD-RW: 10X ●Ultra-Speed CD-RW: 16X (Max.)</li> </ul>                                                                                                                                                                                                                                                                                                                                                        |
|                     | Supported<br>Discs/ Format                           | Reading               | <ul style="list-style-type: none"> <li>●DVD-ROM (Single Layer, Dual Layer) ●DVD-Video</li> <li>●DVD-R<sup>*7</sup> (1.4 GB, 3.95 GB, 4.7 GB)<sup>*9</sup> ●DVD-R DL (8.5 GB)<sup>*9</sup></li> <li>●DVD-RW (Ver.1.1/1.2 1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)<sup>*9</sup></li> <li>●DVD-RAM<sup>*6</sup> (1.4 GB, 2.6 GB, 2.8 GB, 4.7 GB, 5.2 GB, 9.4 GB)<sup>*9</sup></li> <li>●+R (4.7 GB)<sup>*9</sup> ●+R DL (8.5 GB)<sup>*9</sup> ●+RW (4.7 GB)<sup>*9</sup></li> <li>●High Speed +RW (4.7 GB)<sup>*9</sup> ●CD-Audio</li> <li>●CD-ROM (XA compatible) ●CD-R</li> <li>●Photo CD (multiple session compatible) ●Video CD</li> <li>●CD-EXTRA ●CD-RW ●High-Speed CD-RW</li> <li>●Ultra-Speed CD-RW ●CD-TEXT</li> </ul> |
|                     |                                                      | Writing               | <ul style="list-style-type: none"> <li>●DVD-RAM<sup>*6</sup> (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)<sup>*9</sup></li> <li>●DVD-R (1.4 GB, 4.7 GB for General)<sup>*9</sup> ●DVD-R DL (8.5 GB)<sup>*9</sup></li> <li>●DVD-RW (Ver.1.1/1.2 1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)<sup>*9</sup></li> <li>●+R (4.7 GB)<sup>*9</sup> ●+R DL (8.5 GB)<sup>*9</sup> ●+RW (4.7 GB)<sup>*9</sup></li> <li>●High Speed +RW (4.7 GB)<sup>*9</sup> ●CD-R ●CD-RW</li> <li>●High-Speed CD-RW ●Ultra-Speed CD-RW</li> </ul>                                                                                                                                                                                                                     |
|                     | Buffer underrun error pre-<br>vention function       |                       | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

<sup>\*1</sup> Does not guarantee operation of all USB and HDMI-compatible peripherals.

<sup>\*2</sup> When connecting the HDMI compatible display, specifications such as maximum resolutions available to output differ, depending on the specifications of the connected devices. See the specifications of the connected device for details.

<sup>\*3</sup> Data transfer speeds indicate values measured by Panasonic Corporation. The data transfer rate of DVD per 1X speed is 1,350 KB/s. The data transfer rate of CD per 1X speed is 150 KB/s.

<sup>\*4</sup> Performance of CD-R, CD-RW, DVD-RAM, DVD-R, DVD-R DL, DVD-RW, +R, +R DL, and +RW cannot be guaranteed depending on writing status and recording format. Also, some data cannot be played back depending on the disc, settings, and environment being used.

<sup>\*5</sup> If an unbalanced disc (e.g., a disc with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disc is rotating.

<sup>\*6</sup> Only non-cartridge type or removable cartridge type can be used.

<sup>\*7</sup> DVD-R is compatible with 4.7 GB (for General) playback. DVD-R (for Authoring) playback is compatible with discs recorded using Disc-at-Once recording.

<sup>\*8</sup> Depending on the disc, the writing speed may become slower.

<sup>\*9</sup> 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.

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